

CLAIMS

1. A method for controlling a video signal processing apparatus, comprising the steps of:

selecting a first video channel from a plurality of video channels including digital video channels and analog video channels in response to user input corresponding to a channel selection command using one of a channel scan mode and a direct channel selection mode;

transferring a program signal received via a selected digital video channel to a storage device in response to activation of a digital recording mode;

selecting a new one of the plurality of digital video channels and analog video channels in response to the user input while in the digital recording mode, wherein

if the channel scan mode is used, selecting a next digital video channel in the channel scan sequence and skipping any intervening analog video channels between a currently selected video channel and the next digital video channel in the channel scan sequence, and maintaining the digital recording mode.

2. The method according to claim 1, wherein if the user input uses the direct channel selection mode, and the selected channel corresponds to an analog video channel, selecting the analog video channel and terminating the digital recording mode, and if the selected channel corresponds to a digital video channel, selecting the digital video channel and maintaining the digital recording mode.

3. The method according to claim 2, wherein the digital recording mode is initiated in response to user selection of predetermined keys on a user input device.

4. The method according to claim 2, wherein the digital recording mode is initiated in response to user selection of a digital video signal channel.

5. The method according to claim 2, wherein the program signal is stored in a designated buffer in the storage device.
6. The method according to claim 5, wherein the storage device comprises a hard disk device coupled to the television apparatus via the IEEE 1394 bus.
7. The method according to claim 5, wherein the digital video channels are designated by respective major and minor channel numbers, and wherein if the newly selected video channel corresponds to a sub-channel having a new major channel number, deleting any program signals stored in the designated buffer.
8. The method according to claim 5, further comprising the step of determining whether PID filtering is enabled, and if so, deleting any program signals stored in the designated buffer upon selection of a new digital video channel.
9. The method according to claim 5, further comprising the step of determining whether PID filtering is enabled, and if not, and wherein the digital video channels are designated by respective major and minor channel numbers, deleting any program signals stored in the designated buffer only when the newly selected digital video channel corresponds to a sub-channel having a new major channel number.
10. An apparatus, comprising:
 - means for receiving a user input including channel selection commands using one of a channel scan mode and a direct channel mode;
 - means for selecting one of a plurality of digital video channels and analog video channels in response to the channel selection commands, and for acquiring program signals associated with the selected one of the video channels;

means for transferring, via a digital bus, a selected program signal to a storage device when the apparatus is in a recording mode; and

means, coupled to the receiving means, selecting means and transferring means, for controlling the operation of the apparatus in response to user input, wherein if a received channel selection command uses the channel scan mode, the selecting means selects a next digital video channel in a channel scan sequence and skips any intervening analog video channel between a currently selected video channel and the next digital video channel, and maintaining the digital recording mode.

11. The apparatus according to claim 10, wherein if a received channel selection command uses the direct channel selection mode, and the selected channel corresponds to an analog video channel, the selecting means selects the analog video channel and terminates the digital recording mode, and if the selected channel corresponds to a digital video channel, the selecting means selects the digital video channel and the apparatus maintains the digital recording mode.

12. The apparatus according to claim 11, wherein the controlling means initiates the digital recording mode in response to user selection of predetermined keys on a user input device.

13. The apparatus according to claim 11, wherein the controlling means initiates the digital recording mode in response to user selection of a digital video signal channel.

14. The apparatus according to claim 11, wherein the program signal is stored in a designated buffer in the storage device.

15. The apparatus according to claim 11, wherein the storage device comprises a hard disk device coupled to the television apparatus via the IEEE 1394 bus.

16. The apparatus according to claim 15, wherein the digital video channels are designated by respective major and minor channel numbers, and wherein if the newly selected video channel corresponds to a sub-channel having a new major channel number, the control means causes the storage device to delete any program signals stored in the designated buffer.

17. The apparatus according to claim 15, wherein the controlling means determines whether PID filtering is enabled, and if so, causes the storage device to delete any program signals stored in the designated buffer upon selection of a new digital video channel.

18. The apparatus according to claim 15, wherein the controlling means determines whether PID filtering is enabled, and if not, and wherein the digital video channels are designated by respective major and minor channel numbers, causes the storage device to delete any program signals stored in the designated buffer only when the newly selected digital video channel corresponds to a sub-channel having a new major channel number.